Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 28-07-18

Lab ID	:	CP-2019-01-16-57
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.
Agency	:	Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-07-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.7	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-16-57** **Date: 23-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.
Agency	:	Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-07-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-16-57** **Date: 28-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.
Agency	:	Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

: CP-2019-01-16-57 **Date: 28-07-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.9**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.38**	_
5	Bulk Density(Compacted) (Kg/l)	**1.45**	_
6	Water Absorption(%)	**0.22**	_

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-16-57** **Date: 27-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.
Agency	:	Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/68/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

LAB ID : **CP-2019-01-16-57** **Date: 27-07-18**

PHYSICAL **PROPERTIES**

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**8.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.4**	
3	Specific Gravity	**2.62**	_
4	Bulk Density(Loose) (Kg/l)	**1.42**	_
5	Bulk Density(Compacted) (Kg/l)	**1.48**	_
6	Water Absorption(%)	**0.35**	_
7	Aggregate crushing Value(%)	**24.8**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**25.1**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF 01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-01-16-57** **Date: 27-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.
Agency	:	Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	25-07-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	22	22	2.2	97.8	90-100	90-100	90-100	95-100
3	2.36 mm	185	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	205	412	41.2	58.8	30-70	55-90	75-100	90-100
5	600 micron	218	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	142	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	173	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

: CP-2019-01-16-57 **Date: 27-07-18**

PROPERTIES

Tests	Result	Requirements as per IS 383:2016
Water Absorption(%)	1.38	–
Specific Gravity	2.51	–
Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/08/2018

Lab ID	:	**CP-2019-01-16-57**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.
Agency	:	Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-18
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	13/08/2018	150.60 X 149.19 X 149.23	22469	**8.203**	278.8	12.4	12.5
2	PCC	M15	06/08/2018	13/08/2018	151.77 X 151.21 X 149.61	22948	**8.797**	281.4	12.3	
3	PCC	M15	06/08/2018	13/08/2018	149.11 X 151.73 X 150.12	22624	**8.024**	291.7	12.9	

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Quality Manager

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Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2019-01-16-57** **Date: 03/09/2018**
	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.
Agency	:	Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-18
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	03/09/2018	150.86 X 151.53 X 149.14	22860	**8.227**	398.3	17.4	17.4
2	PCC	M15	06/08/2018	03/09/2018	151.76 X 150.71 X 150.38	22872	**8.579**	400.3	17.5	
3	PCC	M15	06/08/2018	03/09/2018	149.55 X 150.45 X 150.07	22500	**8.324**	386.1	17.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-16-57** **Date: 13/08/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.
Agency	:	Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-18
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	13/08/2018	151.29 X 150.35 X 151.73	22746	**8.203**	278.1	12.2	12.3
2	PCC	M15	06/08/2018	13/08/2018	150.69 X 151.48 X 150.66	22826	**8.797**	275.0	12.0	
3	PCC	M15	06/08/2018	13/08/2018	151.04 X 151.12 X 151.67	22826	**8.024**	289.9	12.7	

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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2019-01-16-57** **Date: 03/09/2018**

: Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

: Vidyaranyapura Sub Division, BBMP, Bangalore.

: Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.

: Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.

: BBMP/EE/BTP/WO/68/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	03/09/2018	149.96 X 151.29 X 149.14	22687	**8.227**	391.5	17.3	17.5
2	PCC	M15	06/08/2018	03/09/2018	149.68 X 151.96 X 151.05	22746	**8.579**	393.3	17.3	
3	PCC	M15	06/08/2018	03/09/2018	149.41 X 150.70 X 149.60	22517	**8.324**	404.2	18.0	

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-16-57** **Date: 13/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.

Agency : Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/68/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	13/08/2018	149.21 X 150.61 X 151.10	22473	**8.203**	273.8	12.2	12.6
2	PCC	M15	06/08/2018	13/08/2018	149.44 X 149.00 X 149.74	22266	**8.797**	285.2	12.8	
3	PCC	M15	06/08/2018	13/08/2018	149.95 X 150.14 X 151.15	22513	**8.024**	289.3	12.8	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2019-01-16-57 **Date: 03/09/2018**

: Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

: Vidyaranyapura Sub Division, BBMP, Bangalore.

: Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.

: Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/68/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	03/09/2018	150.91 X 151.33 X 151.64	22838	**8.227**	395.0	17.3	17.5
2	PCC	M15	06/08/2018	03/09/2018	150.29 X 151.92 X 150.89	22832	**8.579**	410.2	18.0	
3	PCC	M15	06/08/2018	03/09/2018	150.97 X 151.49 X 149.93	22872	**8.324**	393.7	17.2	

Note:

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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-16-57** **Date: 13/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.

Agency : Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/68/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	13/08/2018	149.99 X 151.94 X 149.97	22790	**8.203**	283.6	12.4	12.3
2	PCC	M15	06/08/2018	13/08/2018	150.15 X 151.55 X 151.25	22755	**8.797**	274.2	12.0	
3	PCC	M15	06/08/2018	13/08/2018	149.41 X 149.59 X 151.39	22350	**8.024**	276.1	12.4	

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AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig. Date

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2019-01-16-57 **Date: 03/09/2018**

: Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

: Vidyaranyapura Sub Division, BBMP, Bangalore.

: Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.

: Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/68/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	03/09/2018	149.11 X 150.87 X 150.45	22496	**8.227**	401.7	17.9	17.7
2	PCC	M15	06/08/2018	03/09/2018	150.78 X 150.10 X 151.70	22632	**8.579**	391.4	17.3	
3	PCC	M15	06/08/2018	03/09/2018	151.61 X 149.75 X 150.08	22704	**8.324**	407.1	17.9	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP TF 01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-01-16-57** **Date: 03-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts in Ward (Kuvempunagra) Vidyaranyapura Sub Division.
Agency	:	Sri.K.Sudhakareddy, #2471, 13th Cross, 10th Main E Block, Sahakaranagara, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/68/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-18
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	30/07/2018

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	2.116	31570	263.9	8.4	7.8	9.7
2	Cover Slab-2	200.49	250.52	2.122	31564	250.3	7.9	7.4	9.2
3	Cover Slab-3	200.50	250.51	2.118	31567	248.5	7.9	7.3	9.2

Note:
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****End of Report****

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